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1. CBD152-001: Adjustable Focus Lenses for Respiratory Protection

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Current respiratory protection systems require optical inserts for wearers requiring optical correction. Use of optical correction inserts limit optical compatibility with night vision goggles and weapon systems due to the added eye relief. One reason individual high index lenses are not used is because they cost seven times more than vision correction inserts. Additionally, polycarbonate lenses h ...

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2. 9.01: Advanced Manufacturing

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Advanced Manufacturing is “a family of activities that (a) depend on the use and coordination of information, automation, computation, software, sensing, and networking, and/or (b) make use of cutting edge materials and emerging capabilities enabled by the physical and biological sciences, for example nanotechnology, chemistry, and biology. This involves both new ways to manufacture existing pro ...

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3. CBD12-102: Advanced Purification Technology for the Manufacture of

Vaccines, Biologic Drugs, and Enzymes

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop novel, non-synthetic-resin-based protein purification technologies that enables the low-cost production of kilogram quantities of proteins for chemical and biological defense applications. DESCRIPTION: Recent investments by the DoD have been made in areas to increase the agility of the government to respond to a future pandemic or chemical/biological threat in development ...

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4. CBD13-103: Advanced Real-Time Surface Contamination Sensor

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Demonstrate and deliver a novel, noncontacting, broad area rapid scanning surface contamination sensor to provide threat warning in real time. DESCRIPTION: The LWIR (long wave infrared) portion of the spectrum possesses absorption, backscatter, and radiation features that can be used with some limited success to detect and identify chemical agents on surfaces. Passive hyperspectra ...

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5. CBD13-104: AOTF-based Spectral Imaging for Enhanced Stand-off Chemical Detection

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Build an AOTF Imaging System for Enhanced Standoff Chemical Detection in the Long-wave Infrared Region. DESCRIPTION: Acousto-optics can be defined as the study of the interactions between sound waves and light waves. In particular it is the study of diffraction of light by ultrasound or sound in general. Acousto-optic effects are usually based on the change of the refractive index of ...

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6. CBD12-106: Carbon Dioxide and Water Removal Technology for Closed-Circuit Self-Contained Breathing Apparatus

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: To develop high-capacity, low-pressure carbon dioxide removal technology for the development of lower maintenance and lighter weight closed-circuit self-contained breathing apparatus with reduced logistical burden. DESCRIPTION: A Self-Contained Breathing Apparatus (SCBA) is a type of respiratory protection device that provides breathing gas from a source independent of the surround ...

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7. 9.02: Climate Change and Clean Energy

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Implementation of renewable energy and climate change related policies around the globe will require access to accurate, internationally recognized measurements and standards. These will be critical for both policy-making purposes as well as evaluating the impact of mitigation efforts. Such capabilities will be equally important for assessing the impact of energy and climate change policies on t ...

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8. CBD13-109: Closures with Hermetic Sealing for Chem Bio Protective Garments

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Mechanical closures of the hook and loop type used in Army uniforms are the critical sources of leaks in protective clothing/equipment, limiting the protective capability of the ensemble. To address this problem, new closure systems need to be developed to provide both the macroscopic adhesion strength obtainable from the hook and loop closures while also allowing for hermetic sealing a ...

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9. CBD12-107: Continuous Ionization System for Electrostatic Collection of Bioaerosols in Building Protection Applications

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop a system capable of continuous ionization of airborne bioaerosols in the 0.5-5 m size range that does not generate ozone. The system should be designed for use in electrostatic removal of bioaerosols in HVAC environments at reduced operational costs compared to HEPA filtration. DESCRIPTION: Continually operating, or"always on,"removal of airborne particulates provides not on ...

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10. 9.03: Cybersecurity

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Recognizing that the national and economic security of the United States depends on the reliable functioning of critical infrastructure, the President issued Executive Order 13636, Improving Critical Infrastructure Cybersecurity, in February 2013. It directed NIST to work with stakeholders to develop a voluntary framework – based on existing standards, guidelines, and practices - for reducing cy ...

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